

IN THE CLAIMS

Please amend the claims as follows:

1. (CURRENTLY AMENDED) A hydrogen storage alloy comprising:
a first phase and a secondary phase dispersed throughout said first phase;

said first phase comprising 10 to 40 atomic percent titanium, 0.5 to 80 atomic percent vanadium, 10 to 60 atomic percent chromium and greater than 0 to 15 atomic percent manganese;

said secondary phase comprising one or more oxides, nitrides, carbides, oxycarbides, oxynitrides, carbonitrides, or oxycarbonitrides, wherein said one or more oxides, nitrides, carbides, oxycarbides, oxynitrides, carbonitrides, or oxycarbonitrides each include at least one metal selected from ~~misch-metal~~, magnesium, or calcium;

said hydrogen storage alloy, at temperatures of 40°C or less, reversibly storing at least 1.75 weight percent hydrogen and desorbing at least 60% of the maximum hydrogen storage capacity.

2. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said first phase further comprises one or more modifier elements selected from cobalt, iron, nickel, copper, ruthenium, rhenium, rhodium, copper, palladium, osmium, molybdenum, niobium, tungsten, platinum, iridium, and silver.

3. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said first phase comprises 0.5 to 4.5 atomic percent vanadium.

4. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 3, wherein said first phase further comprises molybdenum.

5. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said first phase comprises 61 to 80 atomic percent vanadium.

6. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 5, wherein said first phase further comprises iron.

7. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 5, wherein said first phase further comprises palladium.

8. (CANCELED)

9. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said first phase comprises 3.0 to 9.0

atomic percent manganese.

10. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 8 1, wherein said first phase further comprises iron.

11. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 10, wherein said first phase further comprises cobalt.

12. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 8 1, wherein said first phase further comprises ruthenium.

13. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 8 1, wherein said first phase further comprises cobalt.

14. (CANCELED)

15. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said hydrogen storage alloy reversibly stores at least 2.0 weight percent hydrogen at temperatures of 40°C or less.

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16. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said hydrogen storage alloy reversibly stores at least 2.3 weight percent hydrogen at temperatures of 40°C or less.

17. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said hydrogen storage alloy desorbs at least 65% of the hydrogen stored at the maximum hydrogen storage capacity at temperatures of 40°C or less.

18. (PREVIOUSLY PRESENTED) The hydrogen storage alloy according to claim 1, wherein said hydrogen storage alloy is desorbs at least 70% of the hydrogen stored at the maximum hydrogen storage capacity at temperatures of 40°C or less.

19 - 24. (CANCELED)